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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/655,944	09/04/2003	Tong Xie	10030169-1	7022
75	90 01/13/2005		EXAMI	NER
AGILENT TECHNOLOGIES, INC.			ALSOMIRI, ISAM A	
Intellectual Prop Legal Departme	perty Administration		ART UNIT PAPER NUMBER	
P.O. Box 7599		3662		
Loveland, CO	80537-0599		DATE MAILED: 01/13/2005	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)	7
Office Action Cumment	10/655,944	XIE ET AL.	
Office Action Summary	Examiner	Art Unit	
	Isam A Alsomiri	3662	
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet with the	correspondence address	
A SHORTENED STATUTORY PERIOD FOR REPL' THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a replectified for the maximum statutory period versilure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be ti y within the statutory minimum of thirty (30) da will apply and will expire SIX (6) MONTHS fron , cause the application to become ABANDON!	mely filed ys will be considered timely. n the mailing date of this communicatio ED (35 U.S.C. & 133).	n.
Status			
1) Responsive to communication(s) filed on 28 O	ctober 2004.		
	action is non-final.		
3) Since this application is in condition for allowar	nce except for formal matters, pr	osecution as to the merits i	S
closed in accordance with the practice under E	Ex parte Quayle, 1935 C.D. 11, 4	53 O.G. 213.	
Disposition of Claims			
4) Claim(s) 1-25 is/are pending in the application	•		
4a) Of the above claim(s) is/are withdraw	wn from consideration.		
5) Claim(s) is/are allowed.			
6)⊠ Claim(s) <u>1-25</u> is/are rejected.			
7) Claim(s) is/are objected to.			
8) Claim(s) are subject to restriction and/o	r election requirement.		
Application Papers			
9) The specification is objected to by the Examine	er.		
10)⊠ The drawing(s) filed on 04 September 2003 is/s	are: a)⊠ accepted or b)⊡ obje	cted to by the Examiner.	
Applicant may not request that any objection to the			
Replacement drawing sheet(s) including the correct	- · ·	•	d).
11)☐ The oath or declaration is objected to by the Ex	caminer. Note the attached Office	e Action or form PTO-152.	
Priority under 35 U.S.C. § 119		•	
12) ☐ Acknowledgment is made of a claim for foreign a) ☐ All b) ☐ Some * c) ☐ None of:	priority under 35 U.S.C. § 119(a	ı)-(d) or (f).	
1. Certified copies of the priority document			
2. Certified copies of the priority document			
3. Copies of the certified copies of the prior		ed in this National Stage	
application from the International Bureau * See the attached detailed Office action for a list		od	
Occ the attached detailed Office action for a list	or the certified cobies flot teceto	cu.	
Attachment(s)			
Notice of References Cited (PTO-892)	4) Interview Summary		
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)	Paper No(s)/Mail D 5) Notice of Informal	Pate Patent Application (PTO-152)	
Paper No(s)/Mail Date	6) Other:		

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DETAILED ACTION

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-25 are rejected under 35 U.S.C. 103(a) as being unpatentable over Null US 6,130,663 in view of anyone one of Ono US 6,819,436 or Laskowaski US 4,788,441.

Re claims 1, 9, and 19. Null discloses in figures 1-4 an optical position-tracking system comprising: a first light beam steering device for sweeping a first light beam through a first angular range 162 to cause a reflection of the first light beam by a target 225, and a second light beam steering device for sweeping a second light beam through a second angular range 160 to cause a reflection of the second light beam by the target 225, wherein a position of the target is determined using a triangulation technique utilizing a first angular value of the first light beam and a second angular value of the second light beam, and wherein the first angular value and the second angular value depend on the existence of the respective reflection (see Abstract). Null does not teach that the first and second light beams are reflected to the first and second steering devices respectively. However, such arrangement are well known and are widely used for distance measurement for more accurate measurements; Laskowski teaches a range finder using a scanner 15 that scans in an angular range and receives the reflection (same location) (see figure 1); Ono teaches a similar system for measuring distance using a mirror which scans an area and

receives the reflection (same location) (see figure 23). Therefore, It would have been obvious to modify Null's system to include a mirrors that scans in the angular range and receives the reflection for better and accurate measurements, and to reduce the number of components in the device.

Re claims 2 and 10. Null teaches a processing unit 34 for determining the position of the target.

Re claims 3 and 11. Null teaches the position of the target is an absolute position 40.

Re claims 4, 14, and 21. The target 225 inherently includes a retro-reflecting surface.

Re claims 5, 15, and 22. Null's system teaches detecting the target which reflects the first light beam when the first light beam is at a particular angular value, the first light beam steering device sweeps the first light beam through a limited angular range that includes the particular angular value until the target fails to reflect the first light beam (inherently to keep the cursor in the updated position).

Re claims 6, 16, and 23. Null's system teaches detecting the target which reflects the second light beam when the second light beam is at a particular angular value, the second light beam steering device sweeps the second light beam through a limited angular range that includes the particular angular value until the target fails to reflect the second light beam (inherently to keep the cursor in the updated position).

Re claims 7, 17, and 24. Null teaches the first light beam steering device and the second light beam steering device are each from an electro-optic beam steering device (see col. 5 lines 33-50).

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Re claims 8, 18, and 25. The optical position-tracking system as recited in Claim 1 wherein the first light beam and the second light beam are each generated by a light source from a semiconductor Laser technology-based light source (see col. 6 lines 60-67).

Re claim 12. Null teaches the position enables controlling a cursor in the computer system and enables inputting data into the computer system (see figures 1 and 2).

Response to Arguments

Applicant's arguments with respect to claims 1-25 have been considered but are moot in view of the new ground(s) of rejection.

Conclusion

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event,

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however, will the statutory period for reply expire later than SIX MONTHS from the date of this

final action.

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Isam A Alsomiri whose telephone number is 703-305-5702. The

examiner can normally be reached on Monday-Thursday and every other Friday (8:30-5:00).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Thomas H Tarcza can be reached on 703-306-4171. The fax phone number for the

organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Isam Alsomiri

January 5, 2005

THOMAS H. TARCZA SUPERVISORY PATENT EXAMINER

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